MUST REMAIN ON JOBSITE

Reviewed by J Tumelson 07/05/2016

SB77 JUANITA POINT

11525 JUANITA DR NE KIRKLAND, WA 98034









RFDS: V 3.0 DATED: 04/28/2016

SB77 JUANITA POINT

> 11525 JUANITA DR NE KIRKLAND, WA 98304 KING COUNTY



$\overline{}$		REVISIONS	
REV.	DATE	DESCRIPTION	BY
Α	01/13/16	ISSUED FOR 90% CD REVIEW	AF
В	05/06/16	ISSUED FOR REV 90% CD REVIEW	RLD
0	05/19/16	FINAL CONSTRUCTION DRAWINGS	CBF

TITLE SHEET

GLOTEL PROJECT #:

VICINITY MAP Denny Park Juanita Triangle Park NE 120th St

DRIVING DIRECTIONS

FROM AT&T REGIONAL OFFICE, REDMOND, WA:

ARRIVE 11525 JUANITA DR NE, KIRKLAND, WA 98034

DEPART 16331 NE 72ND WAY, REDMOND, WA 98052 ON NE 72ND WAY (EAST) FOR 76 YDS TURN RIGHT (SOUTH) ONTO 164TH AVE NE, THEN IMMEDIATELY TURN RIGHT (WEST) ONTO BEAR CREEK PKWY FOR 0.7 MI TURN LEFT (WEST) ONTO WA-908 [REDMOND WAY] FOR 2.6 MI 0.7 MI TAKE RAMP (RIGHT) ONTO 1-405 FOR 1.5 MI TOWARDS 1-405 N 3.3 MI AT EXIT 20A, TURN RIGHT ONTO RAMP FOR 0.2 MI TOWARDS NE 116TH ST 4.8 MI TURN LEFT (WEST) ONTO NE 116TH ST FOR 1.5 MI 5.0 MI ROAD NAME CHANGES TO (NE) JUANITA DR (NE) FOR 1.7 MI

SITE INFORMATION

PROJECT DESCRIPTION:

AT&T MOBILITY PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY BY REPLACING (2) EXISTING PANEL ANTENNAS (1 PER SECTOR) WITH (2) NEW PANEL ANTENNAS (1 PER SECTOR) ON AN EXISTING 60'-6" AGL UTILITY POLE; AT&T ALSO PROPOSES TO INSTALL NEW LTE EQUIPMENT INSIDE AN EXISTING PURCELL CABINET; THE REMOVAL OF (3) TMA'S, (4) RUNS OF 7/8" & COAX, (1) GSM CABINET; REMOVING (2) EXISTING 1900MHz RRH UNITS AND (6) DIPLEXERS AND INSTALLING (2) NEW 1900MHz RRH UNITS, (2) NEW WCS RRH UNITS AND (4) NEW DIPLEXERS.
INSTALL (1) DC CONVERTOR SHELF WITH (1) CONVERTOR MODULE AND CONVERT AN EXISTING DC6 TO DC12 INSIDE AN EXISTING POWER CABINET WITHIN EXISTING FENCED COMPOUND.

CODE INFORMATION:

ZONING CLASSIFICATION: RSA 6 BUILDING CODE: 2012 IBC CONSTRUCTION TYPE: IIB OCCUPANCY:

JURISDICTION: CITY OF KIRKLAND PROPOSED BUILDING USE: TELECOMMUNICATIONS FACILITY

SITE LOCATION:

47° 42' 14.526" N (47.7477500°) LATITUDE: LONGITUDE 122° 14' 13.719" W (-122.2287500°)

TOP OF STRUCTURE (AGL): BASE OF STRUCTURE (AMSL): 201.1'

PROJECT LEASE AREA:

PARCEL NUMBER(S):

ROW ADJACENT TO 0333100096

GENERAL INFORMATION:

- 1. PARKING REQUIREMENTS ARE UNCHANGED
- 2. TRAFFIC IS UNAFFECTED
- 3. SIGNAGE IS NOT PROPOSED

LEGAL DESCRIPTION

8.2 MI

AVIAVISTA ADD LOT2 REV KC SP 478129 RECORDING NO 7910191151 SD PLAT DAF-LOT 1 & N 1/2 OF 2

PROJECT CONTACTS

APPLICANT:

NEW CINGULAR WIRELESS PCS, LLC (AT&T) 16221 NE 7ZND WAY, RTC 3 P.O. BOX 97061 REDMOND, WA 98052

PROJECT ENGINEER:

GLOTEL, INC 15375 SE 30TH PL, SUITE 160 BELLEVUE, WA 98007 CONTACT: RYAN MCDANIEL, P.E.

PROJECT MANAGER:

MASTEC NETWORK SOLUTIONS 1203 114TH AVE SE BELLEVUE, WA 98004 CONTACT: PERI TOBIN

PROPERTY OWNER:

110TH AVE NE, EST-06E BELLEVUE, WA. 98004 CONTACT: TIM GASSER PHONE: (425) 456-2776

POLE OWNER:

PSE 355 110TH AVE NE, EST-06E BELLEVUE, WA. 98004 CONTACT: TIM GASSER

SITE ACQUISITION:

GLOTEL INC, 15375 SE 30TH PL, SUITE 160 BELLEVUE, WA 98007 CONTACT: ANNA WHITFIELD PHONE (425) 463-6349

PERMITTING:

GLOTEL INC, 15375 SE 30TH PL, SUITE 160 BELLEVUE, WA 98007 CONTACT: CARLY NATIONS PHONE: (425) 326-6050

CONSTRUCTION MANAGER:

MASTEC NETWORK SOLUTIONS HASTEC NETWORK SOLUTION 1203 114TH AVE SE BELLEVUE, WA 98004 CONTACT: RON EVENSON PHONE: (253) 246–4348

FINAL CONSTRUCTION **DRAWINGS**

DRAWING INDEX

TITLE SHEET G-1 GENERAL NOTES

A-1 SITE PLAN ENLARGED SITE PLAN

EXISTING & PROPOSED EQUIPMENT LAYOUT A-3

A-4 EXISTING & PROPOSED SOUTH ELEVATION EXISTING & PROPOSED EAST ELEVATION A-5

A-6 RF DETAILS A-7

EXISTING & PROPOSED ANTENNA CONFIGURATION RF-1

SCHEMATIC GROUNDING PLAN E-2 GROUNDING DETAILS

DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON PLANS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE ENGINEER AND CARRIER OF ANY ERRORS OR OMISSIONS.

APPROVAL/SIGN OFF

			•		
CONSULTANT GROUP SIGN OFF	DATE	SIGNATURE	AT&T SIGN OFF	DATE	SIGNATURE
CONSTRUCTION MANAGER			RF ENGINEER		
LANDLORD'S REPRESENTATIVE			INTERCONNECT		
PROJECT MANAGER			OPERATIONS		
SITE ACQUISITION			COMPLIANCE		
PERMITTING			CONSTRUCTION MANAGER		
			PROJECT MANAGER		
REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO					
EACH REDLINE NOTE AS D	RAWINGS AF	RE BEING REVIEWED			

Page 1 of 12

LIMITS OF LIABILITY:

GLOTEL HAS MADE EVERY FEFORT TO CREATE COMPLETE AND ACCURATE GLOTEL HAS MADE EVERY EFFORT TO CREATE COMPLETE AND ACCURATE CONTRACT DOCUMENTS WITH THE BEST INFORMATION AVAILABLE AT THE TIME OF THEIR COMPLETION. CONTRACTORS ARE CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE CONTRACT DOCUMENTS MAY OCCUR AND SHALL NOT EXCUSE THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THE DOCUMENTS. REFERENCE ADMINISTRATIVE REQUIREMENTS.

CONTRACT DOCUMENTS:

- THE CONTRACT DOCUMENTS INCLUDE THE AGENCY APPROVED PROJECT SPECIFICATIONS, PLANS, AND THEIR LATEST REVISIONS, ADDENDA, AND CLARIFICATIONS. THE CONTRACT DOCUMENTS MAY ALSO INCLUDE NETWORK CARRIER STANDARDS FOR INSTALLATION OF TELECOMMUNICATIONS EQUIPMENT.
- THE CONTRACTOR SHALL KEEP A MINIMUM OF ONE SET OF CONTRACT DOCUMENTS ON FILE IN THE PROJECT OFFICE AT THE JOB SITE. COPIES OF THE PROJECT DOCUMENTS USED BY SITE STAFF SHALL BE UP TO DATE WITH THE PROJECT OFFICE COPY.
- 3. THE CONTRACTOR SHALL NOTIFY THE PROJECT TEAM OF ANY ERRORS, OMISSIONS, AND INCONSISTENCIES FOUND IN THE CONTRACT DOCUMENTS. THE NOTIFICATION SHALL BE GIVEN BOTH VERBALLY AND IN WRITING WITHIN 24 HOURS OF DISCOVERY.
- 4. IF AN ERROR OR OMISSION IN THE PROJECT DOCUMENTS REQUIRES RECTIFICATION, THE CONTRACTOR SHALL SUBMIT A PROPOSAL TO THE PROJECT TEAM TO RECTIFY THE ISSUE. THE PROPOSAL MUST BE
- 5. THE CONTRACT DRAWINGS ARE PREPARED TO SCALE WITH THE BEST KNOWLEDGE OF THE SITE GIVEN TO GLOTEL. WHERE DIMENSIONS ARE NOT SHOWN IN THE DRAWINGS, THE CONTRACTOR SHOULD CLARIFY WITH THE PROJECT TEAM WHEN THE INFORMATION IS CRITICAL TO PROPER INSTALLATION
- WHEN FABRICATION OF STRUCTURAL ITEMS ARE REQUIRED, IT MAY BE NECESSARY TO SUBMIT SHOP DRAWINGS FOR REVIEW BY GLOTEL SEE STRUCTURAL NOTES.
- DEFERRED SUBMITTALS ARE REQUIRED FOR MATERIALS TO BE PROVIDED BY THE CONTRACTOR. WHERE MATERIALS IN THE PLANS ARE DESIGNATED AS PROVIDED BY CONTRACTOR, THE CONTRACTOR SHALL SUBMIT THE PREFERRED MATERIAL TO THE PROJECT TEAM FOR REVIEW AND APPROVAL PRIOR TO WORK

ADMINISTRATIVE REQUIREMENTS:

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED (INCLUDING FEES) TO COMPLETE THE WORK DESCRIBED BY THE CONSTRUCTION DOCUMENTS.
- PRIOR TO BIDDING THE CONTRACTOR IS RESPONSIBLE FOR REVIEW OF THE PROJECT SITE AND CONTRACT DOCUMENTS TO UNDERSTAND THE DESIGN AND CONDITIONS AFFECTING THE WORK TO BE PERFORMED. ANY ERRORS, OMISSIONS, AND DISCREPANCIES MUST BE SUBMITTED TO THE PROJECT TEAM VERBALLY AND IN WRITING.
- 3. THE CONTRACTOR SHALL PROVIDE A WARRANTY FOR WORK FOR A PERIOD OF ONE YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP. ALL ROOFING AND WATERPROOFING MUST BE WARRANTED FOR A PERIOD OF TWO YEARS. THE PERIOD BEGINS AT SUBSTANTIAL COMPLETION OF
- 4. THE CONTRACTOR SHALL PROVIDE A COPY OF LICENSE AND INSURANCE TO THE TELECOMMUNICATIONS CARRIER.

SITE SAFETY:

- THE CONTRACTOR SHALL PROVIDE OSHA COMPLIANT PROTECTION FOR THE SAFETY OF THE SITE STAFF AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
- 2. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM DIRT AND DEBRIS. SURFACES SHALL BE CLEANED OF GREASE, PAINT, OR OTHER MATERIALS NOT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
- 3. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, DIRT, AND FIRE AS REQUIRED BY THE GOVERNING AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE SECURITY OF THE PROJECT SITE AREA.
- 5. WHERE WORK REQUIRES OPEN HAZARDS TO SITE STAFF, THE HAZARD SHALL BE TEMPORARILY MITIGATED TO OSHA STANDARD UNTIL THE HAZARD IS CLOSED.
- 6. SEE STRUCTURAL NOTES.

UTILITY REQUIREMENTS:

- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY AGENCIES PRIOR TO WORK WITH UTILITIES.
- 2. CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO WORK.
- 3. CONTRACTOR TO PROTECT, REPLACE AND/OR REROUTE ANY EXISTING UTILITIES ENCOUNTERED DURING THE COURSE OF WORK.

SPECIAL CONSIDERATIONS FOR WEATHERPROOFING:

- ALL PENETRATIONS TO EXISTING STRUCTURES MUST BE SEALED WITH APPROVED WEATHERPROOFING. IF WEATHERPROOFING IS OMITTED, CONTACT THE PROJECT TEAM FOR CLARIFICATION OR PROVIDE A WEATHERPROOFING PROPOSAL FOR APPROVAL.
- CONTRACTOR SHALL COORDINATE WITH OWNER AND THE EXISTING ROOFING CONTRACTOR OF RECORD FOR ANY AUGMENTATION TO THE ROOF MEMBRANE, AND HAVING THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S EXISTING WARRANTY.

WORK REQUIREMENTS:

- 1. ALL WORK MUST BE PERFORMED DURING THE OWNERS PREFERRED
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER
- 3. ALL WORK PERFORMED ON THE PROJECT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. SEE STRUCTURAL
- 4. IE INSPECTION OF WORK IS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE INSPECTION ENTITY 24 HOURS IN ADVANCE OF THE WORK TO BE PERFORMED.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY AGENCIES PRIOR TO WORK WITH UTILITIES. REFERENCE UTILITIES
- THE CONTRACTOR SHALL COORDINATE ON—SITE STORAGE WITH OWNER IN ADVANCE OF WORK. PERMITS MAY BE REQUIRED FOR STORAGE ON PUBLIC RIGHT OF WAY.
- 7. ALL NEW CONSTRUCTION SHALL MATCH EXISTING CONSTRUCTION IN FORM, TEXTURE, FINISH, AND IN MATERIALS EXCEPT AS NOTED IN THE CONSTRUCTION DOCUMENTS.
- 8. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT EXISTING WORK FROM DAMAGE DURING THE COURSE OF WORK FOR THIS
- 9. THE CONTRACTOR SHALL PROVIDE WORK WHICH IS LEVEL, PLUMB, AND WITHIN TOLERANCES SPECIFIED BY CODES AND STANDARDS INCLUDED IN THE STRUCTURAL NOTES.
- 10. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE
- 11. ANY SUBSTITUTIONS OF MATERIALS MUST BE APPROVED BY THE
- 12. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS INCIDENTAL TO THE WORK DESCRIBED BY THE CONTRACT DOCUMENTS.
- 13. THE CONTRACTOR MUST RESTORE ALL PORTIONS OF THE PROJECT SITE TO IT'S PRE-WORK CONDITION. WHERE THE WORK PERFORMED DOES NOT ALLOW FOR PRE-WORK RESTORATION, WORK AREAS MUST BE REPAIRED OR REPLACED TO MATCH EXISTING FINISH AND SITE
- 14. THE CONTRACTOR IS RESPONSIBLE FOR ALL DISPOSAL OF DEBRIS AND ITEMS WHICH ARE SPECIFIED TO BE REMOVED IN THE COURSE OF

CAST-IN PLACE CONCRETE:

- 1. ALL CONCRETE DESIGN DESCRIBED BY THIS SET OF DRAWINGS IS
- 2. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. UNLESS SPECIFIED OTHERWISE.
- 3. EACH CONCRETE MIX DESIGN SHALL HAVE A CYLINDER TEST HISTORY EACH CONCRETE MIX DESIGN SHALL HAVE A CYTINDER TEST HISTORY OF 60 DAY'S MINIMUM, TESTED IN ACCORDANCE WITH ASTM C39, TESTED BY AN ACI CERTIFIED STRENGTH TESTING TECHNICIAN, AND THE STRENGTH STATISTICALLY DETERMINED IN ACCORDANCE WITH ACI 318. EACH MIX DESIGN USED ON SITE SHALL BE SUBMITTED TO, AND RECEIVED BY THE PROJECT TEAM BEFORE THE CONCRETE IS PLACED
- 4. RAW MATERIALS, MANUFACTURE, AND DELIVERY TO THE FORMWORK SHALL BE IN ACCORDANCE WITH ASTM C94 AND ACI 318
- 5. EMBEDDED ITEMS ARE TO BE SECURELY FASTENED SO THAT THEY DO NOT MOVE DURING PLACEMENT OF THE CONCRETE. REFERENCE THE REINFORCING STEEL SECTION.
- 6. TWO CYLINDERS SHALL BE TAKEN FOR EACH LOAD DELIVERED TO THE FORMWORK. SAMPLES ARE TO BE TAKEN FROM THE CONCRETE AS IT IS PLACED IN THE FORMWORK IN ACCORDANCE WITH ASTM C172. CYLINDERS ARE TESTED PER ASTM C39 AND TESTED BY AN ACI CERTIFIED CSTT. CONCRETE SAMPLES ARE TO BE TESTED FOR AIR CONTENT AND WATER CEMENT RATIO. ALL TEST RESULTS ARE SUBMITTED TO THE PROJECT TEAM WITHIN ONE MONTH OF PLACING THE CONCRETE ON SITE.
- 7. WHEN AMBIENT TEMPERATURES FALL BELOW 55 DEGREES FAHRENHEIT. WHEN AMBIENI I LEMPERATURES FALL BELOW 50 DEGREES FAHRENHEIT, THE CONTRACTOR SHALL FOLLOW GUIDELINES DESCRIBED IN ACI 306. WHEN AMBIENT TEMPERATURES RISE ABOVE 90 DEGREES FAHRENHEIT, THE CONTRACTOR SHALL FOLLOW GUIDELINES DESCRIBED IN ACI 305. THE CONCRETE SHALL BE PROTECTED FROM FREEZING OR FROM EXCESSIVE HEAT WITH TENTS OR BLANKETS TO PROVIDE FOR HEAT OR MONEYURE LOSS.
- 8. ALL CONCRETE SHALL BE PLACED AS CLOSE TO PRACTICAL TO THE FINAL DESTINATION IN THE FORM. CONCRETE SHALL NOT BE PLACE FROM A HEIGHT GREATER THAN 6 FEET FROM THE POINT OF
- 9. VIBRATION SHALL BE USED TO CONSOLIDATE CONVENTIONAL CONCRETE. EXTERNAL STINGER VIBRATORS SHALL BE INSERTED VERTICALLY INTO FORMS EVERY 36 INCHES MAXIMUM AND FOR EACH LIFT. STINGER VIBRATORS SHALL BE INSERTED TO A VERTICAL DEPTH OF 12 INCHES INTO PREVIOUS LIFTS TO ENSURE CONSOLIDATION. FOLLOW GUIDELINES USED IN ACI 309R.
- 10. REPAIRS FOR MINOR DEFECTS MAY BE ADMINISTERED BY AN EXPERIENCED CRAFTSMAN WITHOUT AN APPROVED PROCEDURE. A MINOR DEFECT INCLUDES BUG HOLES, HONEYCOMBING, CHIPS, AND SPALLS THAT DO NOT EXCEED ½ INCH OF DEPTH INTO THE FACE OF THE CONCRETE. MAJOR REPAIRS EXTENDING BEYOND ½ INCH OF DEPTH AND UP TO THE REINFORCING MAY BE REPAIRED WITH AN APPROVED REPAIR PROCEDURE. REPAIR PROCEDURES MAY BE SUBMITTED TO THE PROJECT TEAM FOR APPROVAL IN ADVANCE OF FIELD WORK. DAMAGE EXTENDING BEYOND STEEL REINFORCING REQUIRES A RETROFIT DESIGN OR IS REJECTED
- 11. SEE ARCHITECTURAL NOTES FOR CONCRETE FINISH REQUIREMENTS

ABBREVIATIONS: LEGEND:

WITHOUT

WATER PROOF

-				ELGEITE.		
A/C AGL AMSL APPRC AWG	AIR CONDITIONING ABOVE GROUND LEVEL ABOVE MEAN SEA LEVEL X APPROXIMATELY AMERICAN WIRE GAGE	MAX MECH MTL MFR MGR MIN	MAXIMUM MECHANICAL METAL MANUFACTURE MANAGER MINIMUM MINIMUM MINIMUM MIXED TO THE MAXIMUM City of Kirkland Reviewed by J Tun		- RIGHT-0	T BOUNDARY LINE OF-WAY CENTERLINE OF-WAY LINE NT BOUNDARY LINE
BCW	BARE COPPER WIRE	MISC	minimum miscellaneous $07/05/2016$			NAL BREAKDOWN LINE
BLDG BLK	BUILDING BLOCKING	NA	NOT APPLICABLE	COAXCOAXCOAX		
CLR	CLEAR	NIC NTS	NOT IN CONTRACT NOT TO SCALE			OPTIC CABLE LINE
COAX CONC CONST	COAXIAL CABLE CONCRETE CONSTRUCTION	OC OD	ON CENTER OUTSIDE DIAMETER	——————————————————————————————————————		
CONT	CONTINUOUS	PLYWD	PLYWOOD	— GAS — GAS — GAS —		
DIA	DIAMETER	PROJ PROP	PROJECT PROPERTY	—— онт —— онт —		
DWG	DRAWING	PT	PROPERTY PRESSURE TREATED	— UGT — UGT — UGT —	- BURIED	TELEPHONE LINE
EA ELEV	EACH ELEVATION	REQ	REQUIRED	wwww		
ELEC EQ	ELECTRICAL EQUAL	RF RM	RADIO FREQUENCY ROOM		- BURIED	SANITARY SEWER
EQUIP EXT	EQUIPMENT EXTERIOR	RO RRH	ROUGH OPENING REMOTE RADIO HEAD	SD SD SD		STORM DRAIN INE/FLOW LINE
FIN	FINISH	RRU	REMOTE RADIO UNIT			*
FLUOR FLR	FLUORESCENT FLOOR	SHT SIM	SHEET SIMILAR	x x x x x x		
FT	FOOT	SPEC	SPECIFICATION		- WOOD F	
FRP	FIBER-REINFORCED POLYMER	SF SS STL	SQUARE FOOT STAINLESS STEEL STEEL		- BARBED	WIRE/WIRE FENCE
GA GALV	GAUGE GALVANIZED	STRUCT	STRUCTURAL STANDARD			
GC	GENERAL CONTRACTOR	SUSP	SUSPENDED	△ TRANSFORMER	-φ-	FIRE HYDRANT
GPS GRND	GLOBAL POSITIONING SYSTEM GROUND	THRU	THROUGH	💢 LIGHT STANDARD	×	GATE VALVE
HORZ	HORIZONTAL	TMA TNNG	TOWER MOUNTED AMPLIFIER TINNED	P POWER VAULT	⊞	WATER METER
HR HT	HOUR HEIGHT	TYP	TYPICAL	☑ UTILITY BOX	Q	FIRE STAND PIPE
HVAC	HEATING VENTILATION AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE	Ø UTILITY POLE		CATCH BASIN, TYPE I
ID	INSIDE DIAMETER	VERT	VERTICAL	← POLE GUY WIRE		CATCH BASIN, TYPE II
IN	INCH	VIF	VERIFY IN FIELD	(D) GAS VALVE	ъ.	SIGN
INFO INSUL	INFORMATION INSULATION	W/	WITH	GAS METER	0	BOLLARD
INIT	INTERIOR	111/0	WITHOUT			

T TELEPHONE VAULT

(x)

 $\begin{pmatrix} x \\ x-x \end{pmatrix}$

Δ

DIG ALERT

□ TELEPHONE_RISER

GRID REFERENCE

DETAIL REFERENCE

FLEVATION REFERENCE

SECTION REFERENCE

REVISION

□ MAIL BOX

.234.21 SPOT ELEVATION

Know what's below.

CALL AT LEAST TWO WORKING DAYS BEFORE YOU DIG

CALL before you dig.

CONCRETE SLABS ON GRADE:

INT IBC

- 1. SLAB-ON-GRADE CONSTRUCTION SHALL BE SUPPORTED ON A 6 INCH
- 2. INTERIOR SLABS-ON-GRADE SHALL BE CAST OVER A 4 MIL VAPOR BARRIER.
- 3. PROVIDE CONTROL JOINTS IN ALL SLABS ON GRADE. JOINTS ARE TO BE INSTALLED AT 14 TO 16 FEET ON CENTER EACH WAY MAXIMUM UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ALL SAW CUT JOINTS IN CONCRETE SLABS ARE TO BE MADE WITH AN EARLY CUT SAW AS SOON AS POSSIBLE AFTER POURING BUT NO LATER THAN ONE HOUR AFTER FINISHING.
- 5. PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO COLD OR HOT WEATHER IN ACCORDANCE WITH ACL 305 AND 306. CONTRACTOR SHALL TAKE SPECIAL CURING PRECAUTIONS TO MINIMIZE SHRINKAGE CRACKING OF CONCRETE SLABS.
- 6. THE CONTRACTOR SHALL TAKE CARE THAT HEAVY EQUIPMENT AND AREAS USED FOR STAGING DO NOT AND DAMAGE SLABS ON GRADE. DAMAGED SLABS ON SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 7. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI. UNLESS SPECIFIED OTHERWISE.

1. EXPANSION BOLTS INTO CONCRETE SHALL BE "KWIK BOLT TZ" AS MANUFACTURED BY THE HILTI CORP., INSTALLED IN STRICT ACCORDANCE WITH ICC—ES REPORT ESR—1917. SPECIAL INSPECTION IS REQUIRED. EXPANSION ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.

REINFORCING STEEL:

- ALL DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE ACI MANUAL OF CONCRETE PRACTICE.
- 3. REINFORCING STEEL SPLICES SHALL BE 40 BAR DIAMETERS OR TWO TRANSVERSE WIRE SPACINGS FOR WIRE MATS.
- 6. WELDING OF REBAR IS NOT ALLOWED WITHIN THE MIDDLE THIRD OF THE BAR LENGTH. WELDING OF REBAR IS CONDUCTED IN ACCORDANCE WITH AWS D1.4. USE ONLY ASTM A706 REINFORCING.
- 7. WIRE REINFORCING CONFORMS TO ASTM A82 OR A185.
- 8. CONCRETE COVER FOR REINFORCING STEEL CONFORMS TO ACL 318

INTERNATIONAL BUILDING CODE

LOCATION MEASUREMENT UNIT LONG TERM EVOLUTION

- LAYER OF CLEAN 3/4 NICH MINUS SUBGRADE COMPACTED TO A 6 INCH LAYER OF CLEAN 3/4 NICH MINUS SUBGRADE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). SUBGRADE SHALL BE SUPPORTED ON UNDISTURBED NATIVE SOIL OR PROPERLY PLACED AND COMPACTED

- 4. PROVIDE ISOLATION JOINTS AROUND ALL COLUMNS/SPREAD FOOTINGS JOINTS SHALL BE FORMED BY INSERTING PREFORMED JOINT FILLER FOR THE FULL DEPTH OF THE SLAB.

CONCRETE OR MASONRY ANCHORAGE:

- REINFORCING BARS SHALL BE DEFORMED AND CONFORM TO ASTM A615 OR A706, GRADE 60. REINFORCING TIE WIRE MAY BE GRADE
- 4. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318.
- 5. NO.5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER.







RFDS: V 3.0 DATED: 04/28/2016

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TITLE GENERAL NOTES

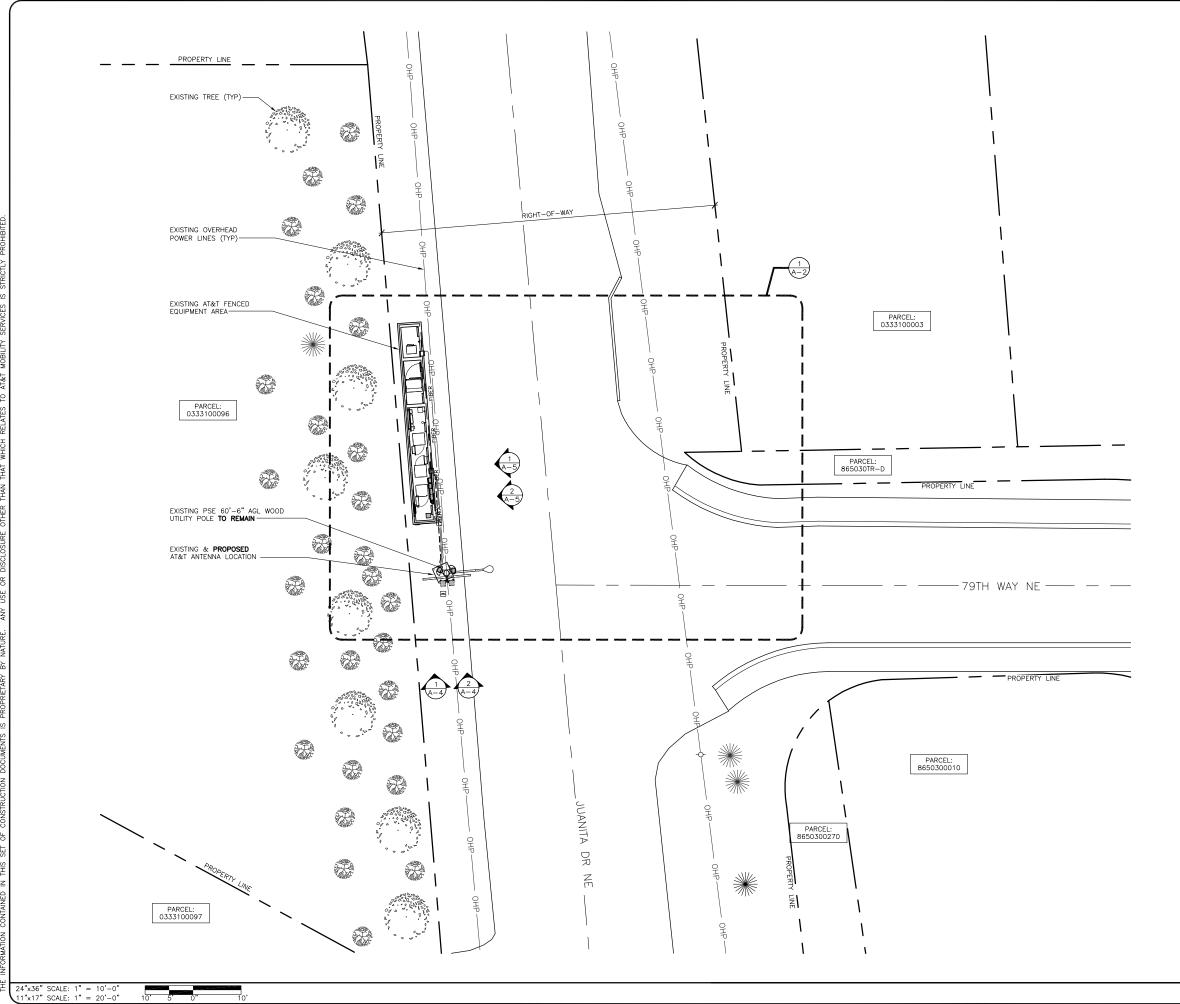
SHEET

G-1

GLOTEL PROJECT #:

J4968

Page 2 of 12



- NOTES:

 1. VERIFICATION THAT THE ANTENNA MOUNTS CAN SUPPORT ALL PROPOSED LOADING SHALL BE PERFORMED BY A REGISTERED STRUCTURAL ENGINEER

 2. STRUCTURAL ENGINEER
 2. STRUCTURAL ANALYSIS AND DESIGN TO BE PERFORMED PRIOR TO FCD COMPLETION
 3. THIS IS NOT A SITE SURVEY, ALL PROPERTY LINES AND BOUNDARIES ARE TAKEN FROM AN EXISTING PARCEL VIEWER AND ARE APPROXIMATE

City of Kirkland **Reviewed by J Tumelson** 07/05/2016







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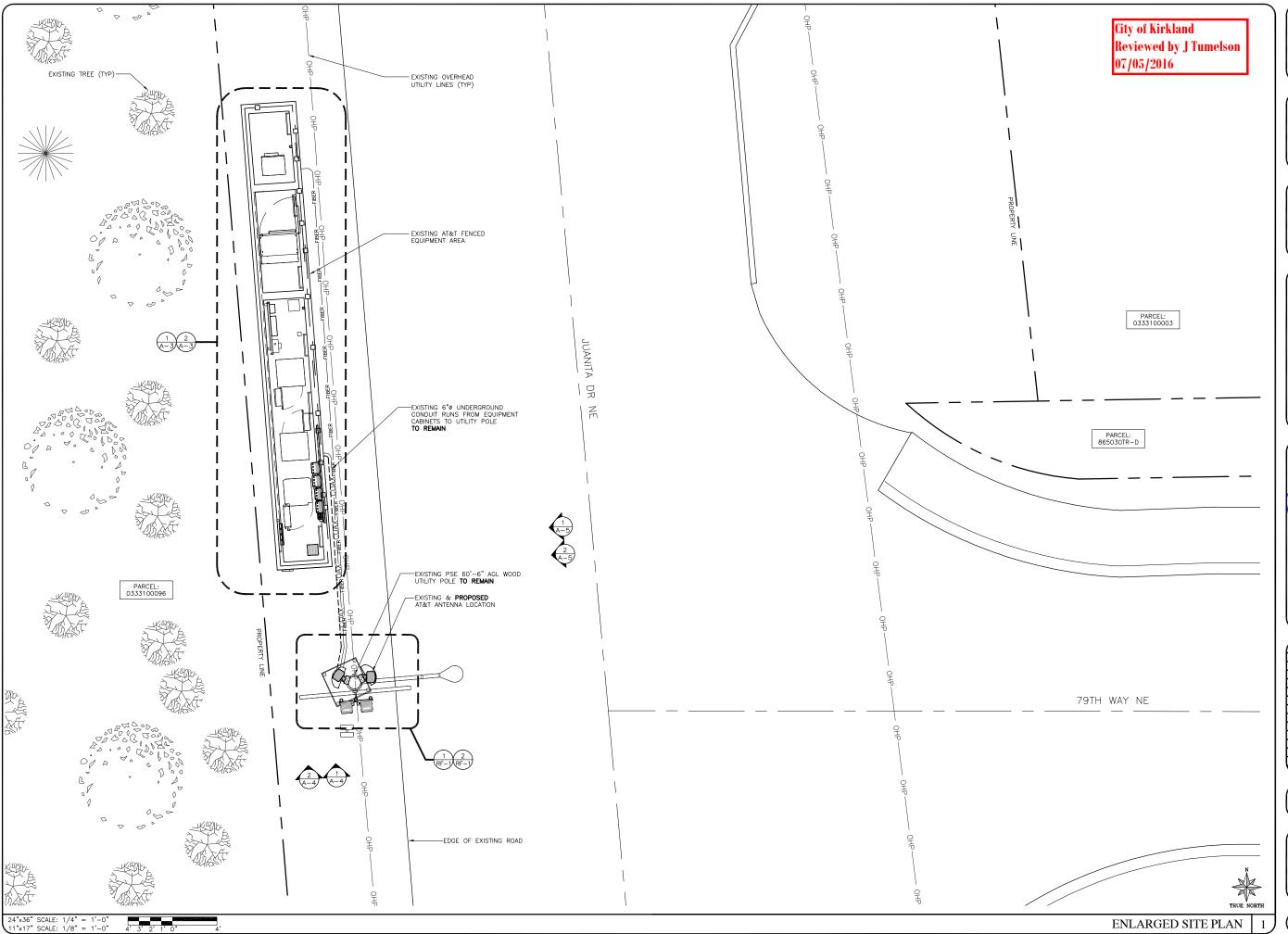
SHEET

A-1

GLOTEL PROJECT #:

TRUE NORTH

SITE PLAN









SB77
JUANITA POINT

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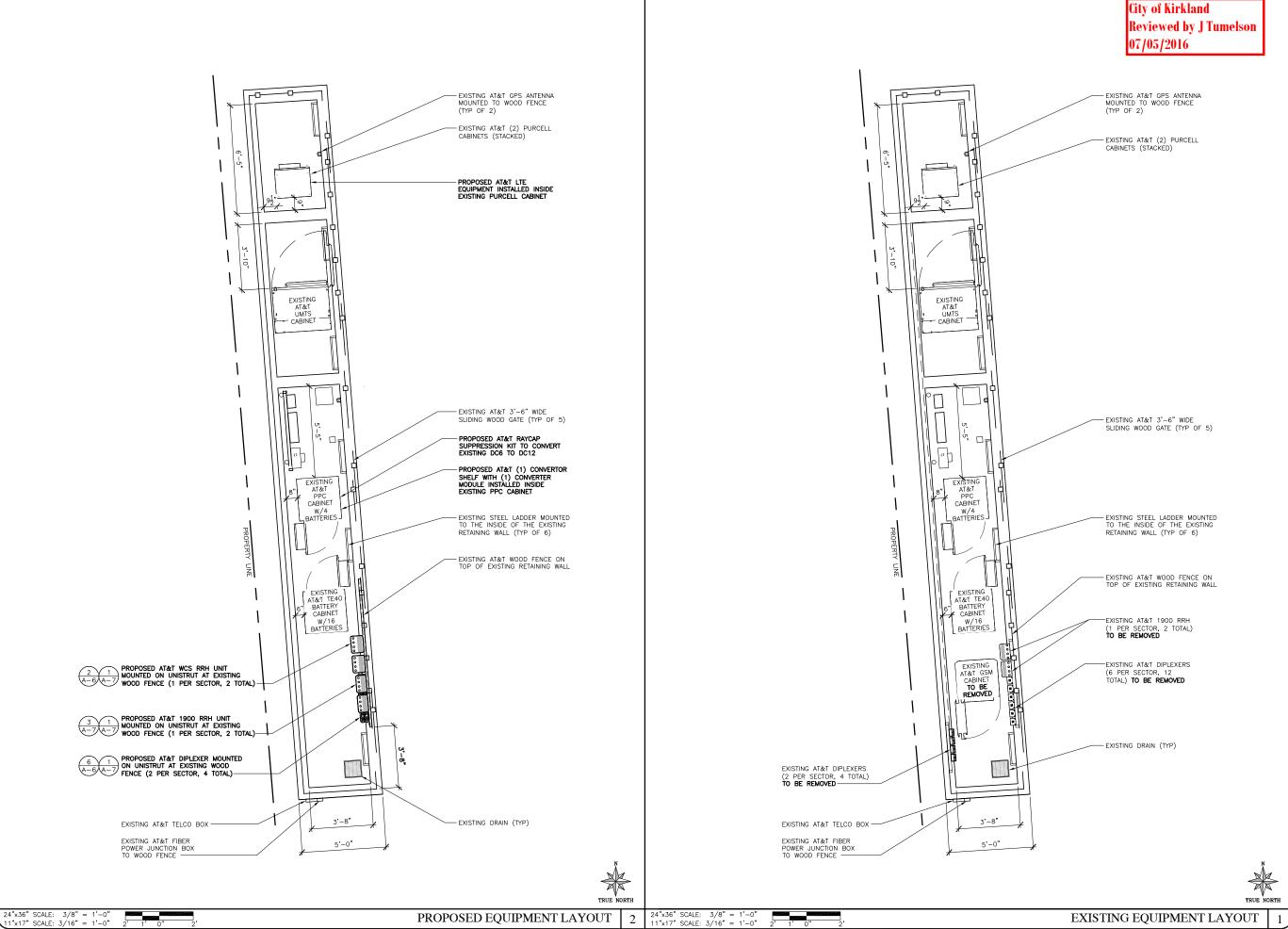
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TITLE ENLARGED SITE PLAN

SHEET

A-2

GLOTEL PROJECT #:









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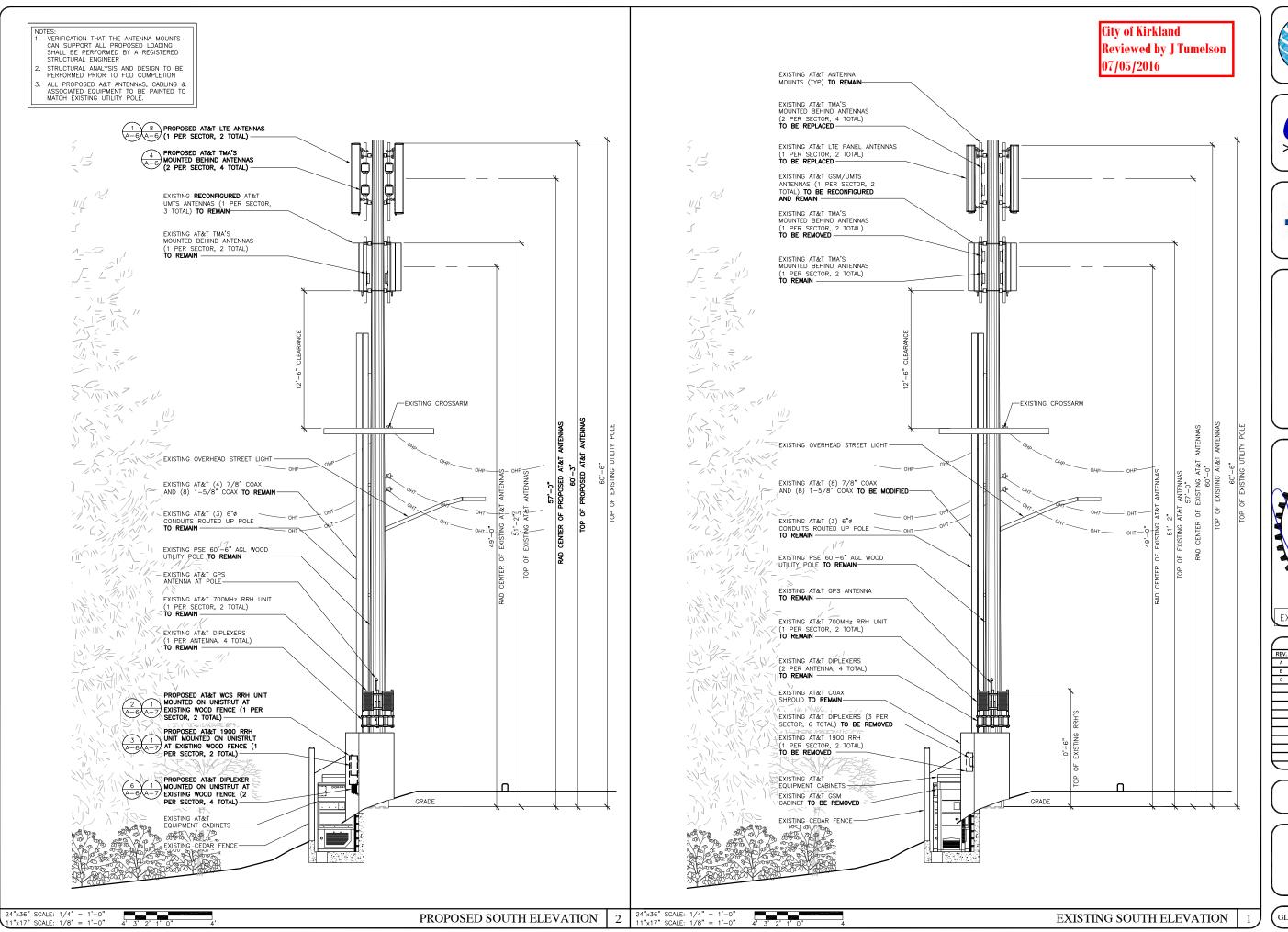
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В	05/06/16	ISSUED FOR REV 90% CD REVIEW	RLD
0	05/19/16	FINAL CONSTRUCTION DRAWINGS	CBK

TITLE EXISTING & PROPOSED EQUIPMENT LAYOUT

SHEET

A-3

GLOTEL PROJECT #:









SB77 JUANITA POINT

> 11525 JUANITA DR NE KIRKLAND, WA 98304 KING COUNTY



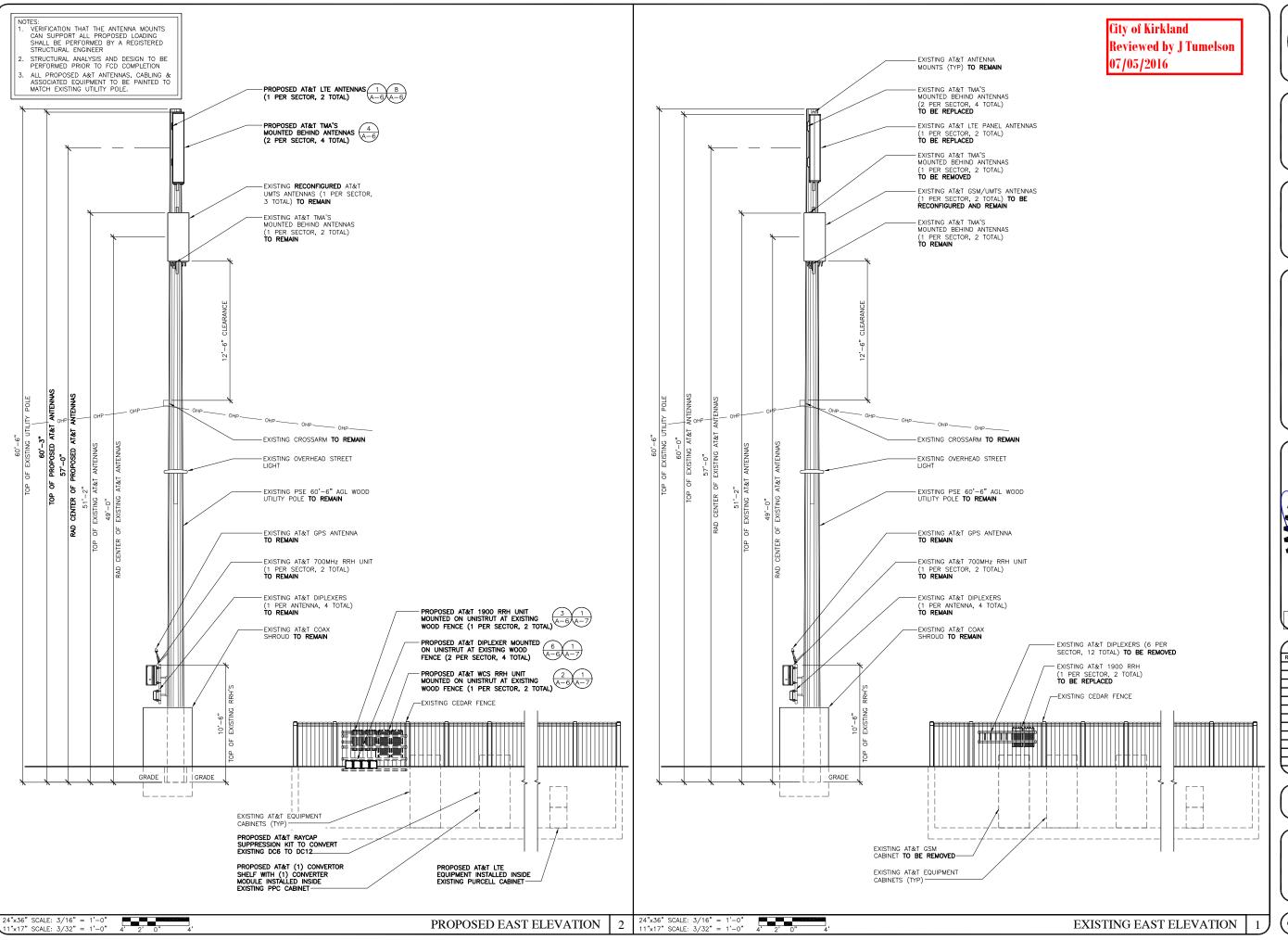
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REV.	DATE	DESCRIPTION	BY
Α	01/13/16	ISSUED FOR 90% CD REVIEW	AF
В	05/06/16	ISSUED FOR REV 90% CD REVIEW	RLD
0	05/19/16	FINAL CONSTRUCTION DRAWINGS	CBK

TITLE EXISTING & PROPOSED SOUTH ELEVATION

SHEET

A-4

GLOTEL PROJECT #:









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В	05/06/16	ISSUED FOR REV 90% CD REVIEW	RLD		
0	05/19/16	FINAL CONSTRUCTION DRAWINGS	CBK		

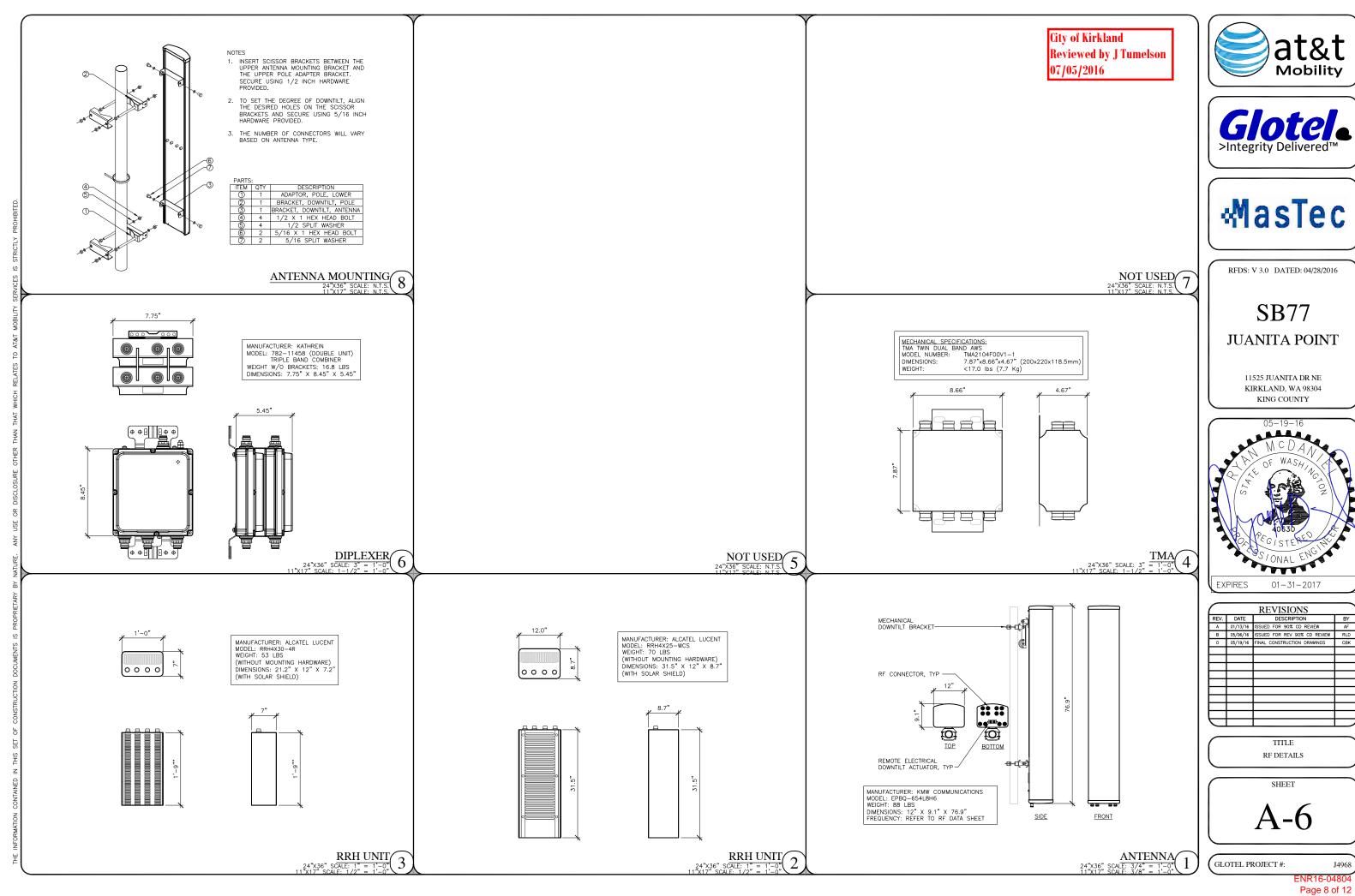
TITLE EXISTING & PROPOSED EAST ELEVATION

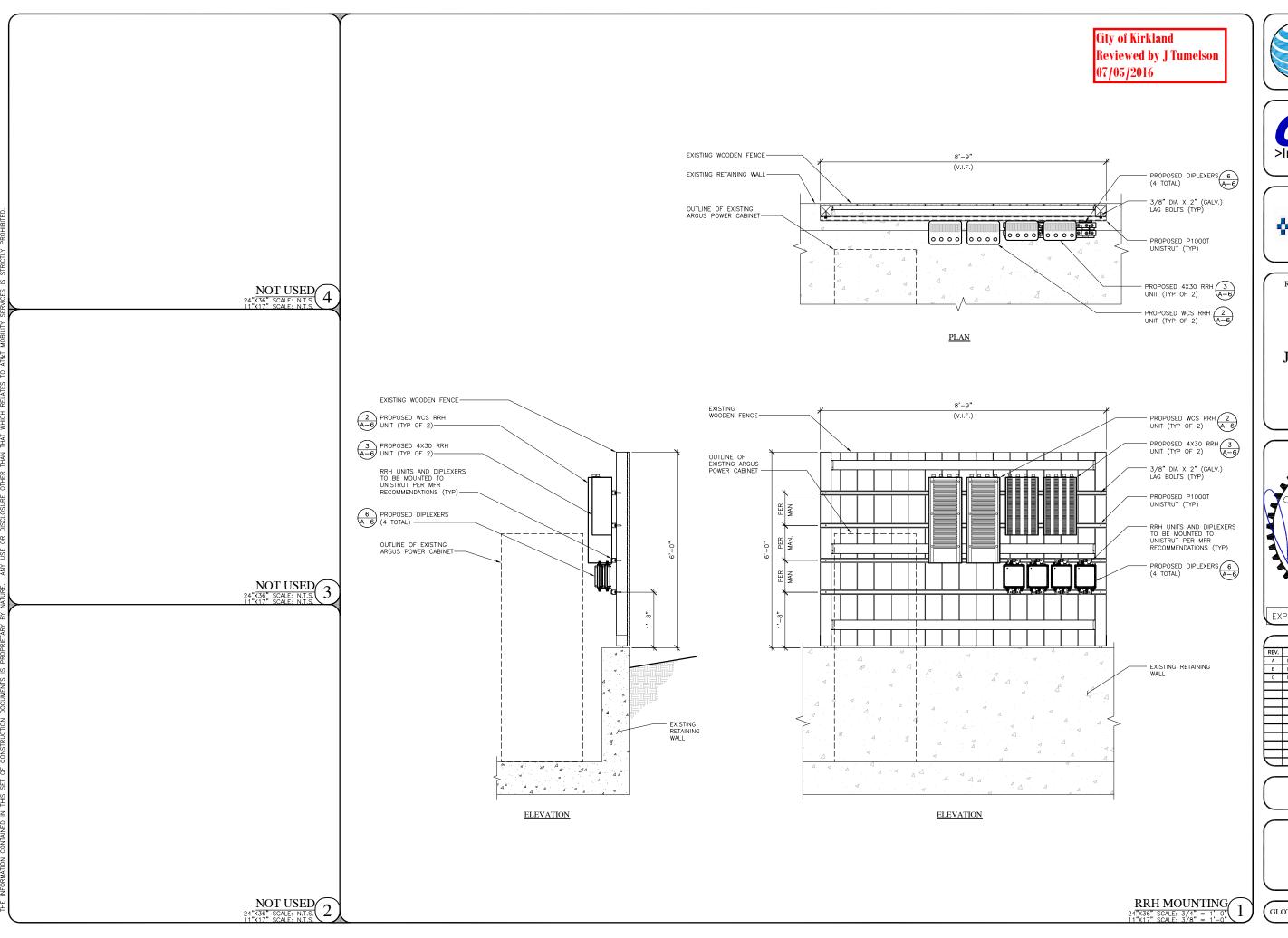
SHEET

A-5

GLOTEL PROJECT #:

J4968 116-04804





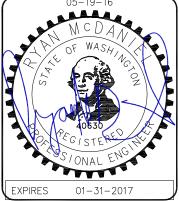






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JUANITA POINT

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		REVISIONS	
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TITLE RF DETAILS

SHEET

A-7

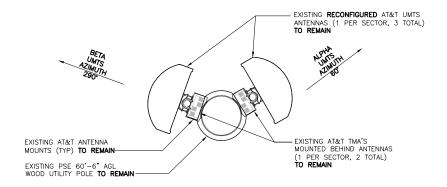
GLOTEL PROJECT #:

 $24"\times36"$ SCALE: 3/4" = 1'-0"

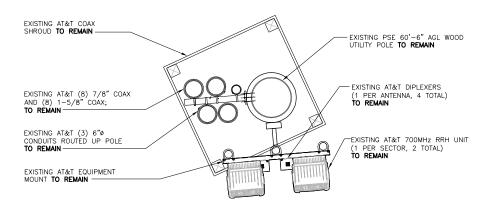
* DO NOT USE CABLE LENGTHS FOR CUT LENGTHS: ESTIMATES ONLY
* CONFIRM THAT GENERAL CONTRACTOR IS USING LATEST VERSION OF RFDS.

NOTE: ALL PROPOSED AT&T POLE MOUNTED ANTENNAS, EQUIPMENT AND ASSOCIATED CONDUITS AND CABLES TO BE PAINTED TO MATCH NEW UTILITY POLE PROPOSED AT&T LTE ANTENNAS / (1 PER SECTOR, 2 TOTAL) PROPOSED AT&T TMA'S
MOUNTED BEHIND ANTENNAS
A TOTAL EXISTING AT&T ANTENNA MOUNTS (TYP) TO REMAIN EXISTING PSE 60'-6" AGL WOOD UTILITY POLE **TO REMAIN**

ANTENNAS AT 57'-0" AGL RAD CENTER



ANTENNAS AT 49'-0" AGL RAD CENTER

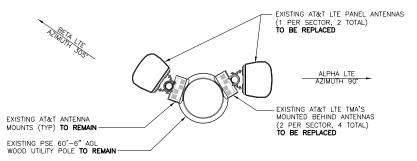


RRH UNITS AT 10'-0" AGL MOUNT HEIGHT

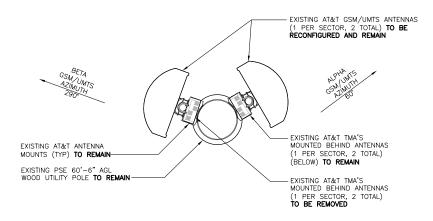


EXISTING ANTENNA CONFIGURATION AND SCHEDULE PER RFDS V3 DATED 04/28/2016 ALPHA JMBER (COAX COAX Ø COAX LENGTH DIPLEXED AZIMUTH RADCENTER VENDOR MODEL TMA RRH **ANTENNAS** GSM 850/1900 ANDREW BXLH-6565A-R2 (2) E15S09P78 7/8" UMTS 850/1900 LTE 1900 57'-0" QUINTEL QS6658-3 (2) E15S09P78 1-5/8" 60'-0" LTE 700 NUMBER OF ANTENNAS JMBER OF COAX COAX Ø COAX BETA AZIMUTH RADCENTER VENDOR MODEL TMA DIPLEXED RRH GSM 850/1900 290° 49'-0" ANDREW BXLH-6565A-R2M (2) E15S09P78 7/8" UMTS 850/1900 LTE 1900 (2) E15S09P78 1-5/8" 57'-0" QUINTEL QS6658-3 60'-0" 6 305* LTE 700

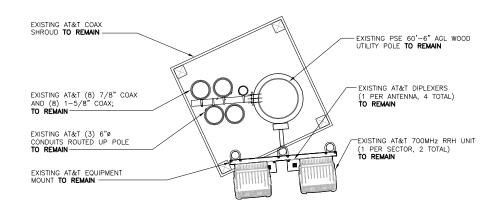
> City of Kirkland Reviewed by J Tumelson 07/05/2016



ANTENNAS AT 57'-0" AGL RAD CENTER



ANTENNAS AT 49'-0" AGL RAD CENTER



RRH UNITS AT 10'-0" AGL MOUNT HEIGHT



Mobility





RFDS: V 3.0 DATED: 04/28/2016

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EXISTING & PROPOSED ANTENNA CONFIGURATION

SHEET RF-1

GLOTEL PROJECT #:

PROPOSED ANTENNA CONFIGURATION

24"x36" SCALE: 3/4" = 1'-0" 2

EXISTING ANTENNA CONFIGURATION

ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS. 7. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.

8. USE PANI SCHEME FOR LOADING GROUNDS ON MGB AS DISCUSSED IN NSTD 119, 33 & 36.

GROUND ROD NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
- POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.

City of Kirkland Reviewed by J Tumelson 07/05/2016







RFDS: V 3.0 DATED: 04/28/2016

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SHEMATIC GROUNDING PLAN

SHEET

E-1





REVISIONS			
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0	05/19/16	FINAL CONSTRUCTION DRAWINGS	CBK

GLOTEL PROJECT #:

KEY NOTES:

(1) CADWELD (TYP.) SEE SHEET E-2.

#2 AWG GROUND RING

FIELD VERIFY & TIE INTO

2 ANTENNA LEVEL GROUND BAR SEE SHEET E-2

3 GROUND BUS BAR AT BASE OF POLE. SEE SHEET E-2

#6 AWG GROUND FROM ANTENNA TO TIE INTO ANTENNA GROUND BAR (TYP). SEE SHEET E-2

#2 AWG GROUND FROM ANTENNA GROUND BUS BAR TO UTILITY POLE GROUND BUS BAR (TYP OF (2) PLACES). SEE SHEET E-2

GENERAL NOTES:

ALL GROUND CONNECTIONS SHALL BE CADWELD. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.

4. CONTRACTOR TO VERIFY AND TEST GROUND SOURCE, GROUNDING AND OTHER

REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.

ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED AT&T MOBILITY, REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RINGS.

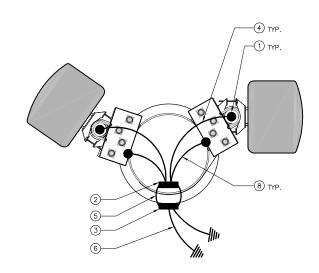
OPERATIONAL TESTING WILL BE WITNESSED BY VERIZON WIRELESS, REPRESENTATIVE.

6 #2 AWG GROUND TO TIE INTO NEW POLE GROUND RING. (TYP OF (2) PLACES)

#6 AWG RRH MOUNT GROUND TO SECTOR GROUND BAR (TYP) (FIELD VERIFY). SEE SHEET E-2

8 #6 AWG TMA MOUNT GROUND TO SECTOR GROUND BAR (TYP). SEE SHEET E-2

9) PROPOSED RRH GROUND BAR. SEE SHEET E-2



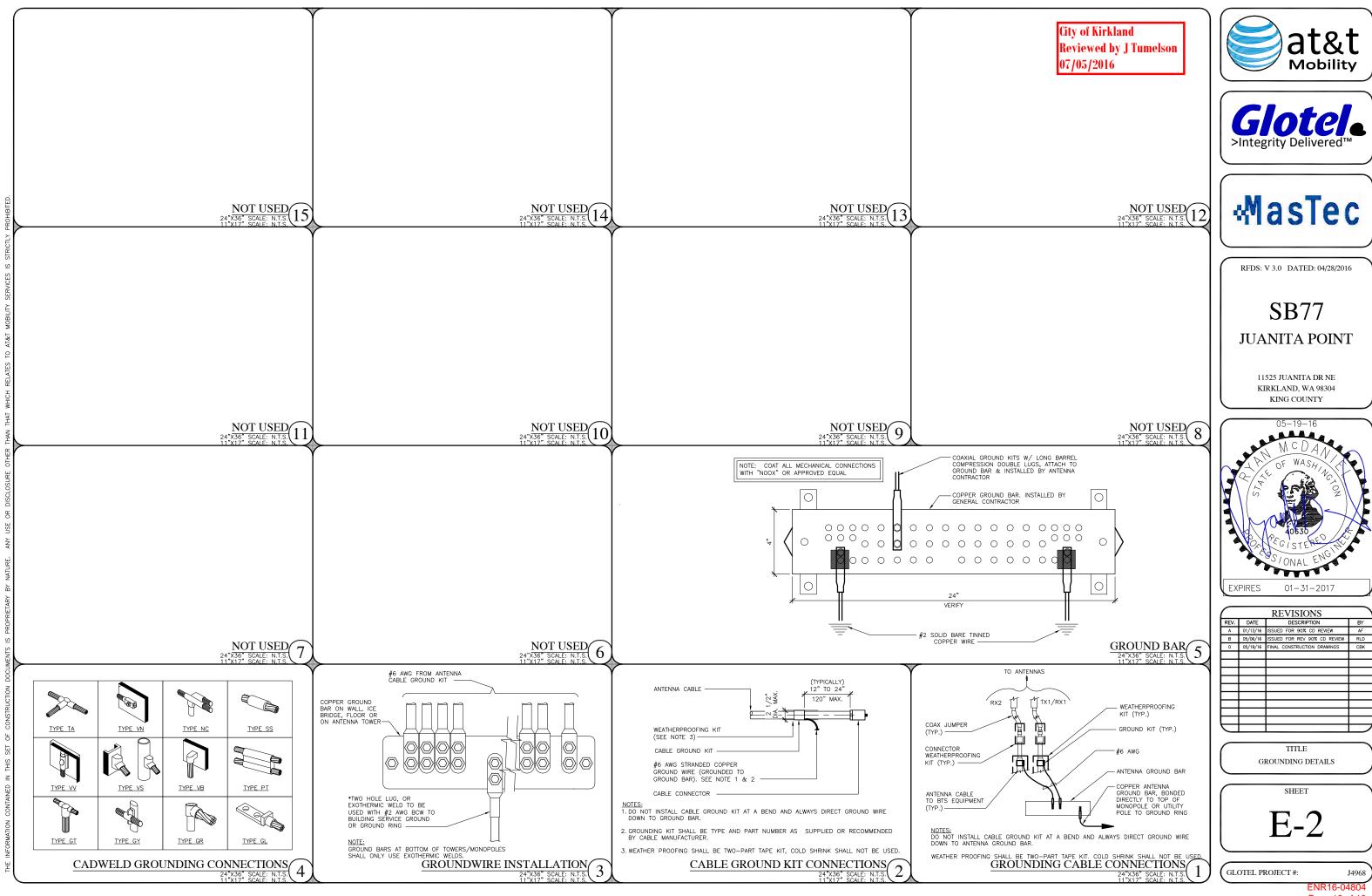
ANTENNAS AT 57'-0" AGL RAD CENTER

24"x36" SCALE: 1-1/2" = 1'-0" [1"x17" SCALE: 3/4" = 1'-0" 1'

ANTENNA GROUNDING SCHEMATIC

24"x36" SCALE: 3/4" = 1'-0" 2

EQUIPMENT GROUNDING SCHEMATIC



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